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3 January 1974

Report No. 102200-7-L

National Aeronautics and Space Administration
Johnson Space Center
Principal Investigator Management Office
Mail Code TF6
Houston, Texas 77058

Attention: Mr. Zack H. Byrns

Contract: NAS9-13279

Subject: Third Quarterly Report for Period 1 September 1973
Through 1 December 1973

Dear Sir:

The following is the third quarterly report for this contract entitled,
"Determination of the Earth's Aerosol Albedo Using Skylab Data."

Work on this contract is performed in the Infrared and Optics Division
directed by Mr. Richard R. Legault. Dr. Robert E. Turner is the Principal
Investigator for this contract.

PROGRESS

During this contract period screening film was received for the White
Sands and Lake Michigan test sites. Other supplementary imagery was also
received but no S-191 nor S-192 magnetic data tapes were available as of
1 December 1973.

On 7 September 1973 and 18 September 1973 the ERIM multispectral scanner
was flown over the Great Lakes (Lake Michigan) test site at the approximate
time of a Skylab overpass. The rolls of 9.5 inch imagery were examined in a pre-
liminary investigation to determine cloud cover. Simultaneous S-192 data
are not yet available but the ERIM multispectral analog magnetic data have
been collected. Integrating nephelometer data were also collected aboard
the ERIM aircraft.

PLANS

During the next quarter it is expected that S-192 multispectral
scanner data will be analyzed for at least one of the test sites. The
appropriate computer software is now being developed.

(E74-10190) DETERMINATION OF THE EARTH'S
AEROSOL ALBEDO USING SKYLAB DATA

Quarterly Report, 1 Sep - 1 Dec 1973

(Environmental Research Inst. of Michigan)

2 p HC \$3.00

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Preliminary computer simulations can also be run to estimate the radiation field to be expected.

It is anticipated that data from SL-4 will be collected for the original Pisgah Crater site in California.

TRAVEL

No travel took place under this contract during the last quarter.

Submitted by:

Robert E. Turner

Robert E. Turner
Principal Investigator

Approved by:

Paul R. Legault for

Richard R. Legault
Director, IROD

RET:rmc